

SIMONDS

SAWS and MACHINE KNIVES

FOR MILL AND SHOP

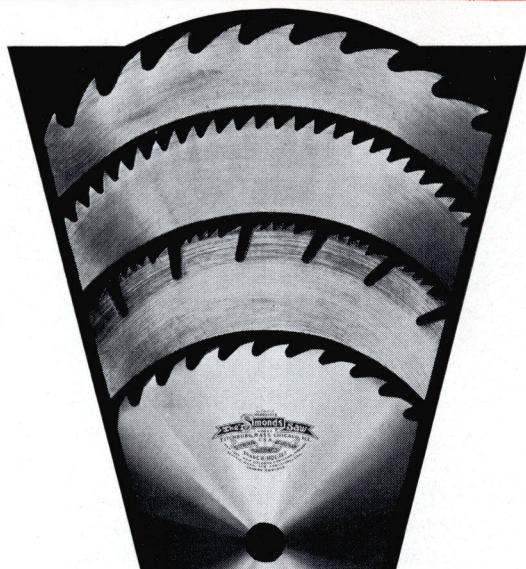
- SOLID CIRCULAR SAWS
- NARROW BAND SAWS
- WOOD WORKING KNIVES
- CUTTER HEADS
- ELECTRIC TOOLS
- ABRASIVE WHEELS

CATALOG NO. 131

SIMONDS

SAWS and MACHINE KNIVES

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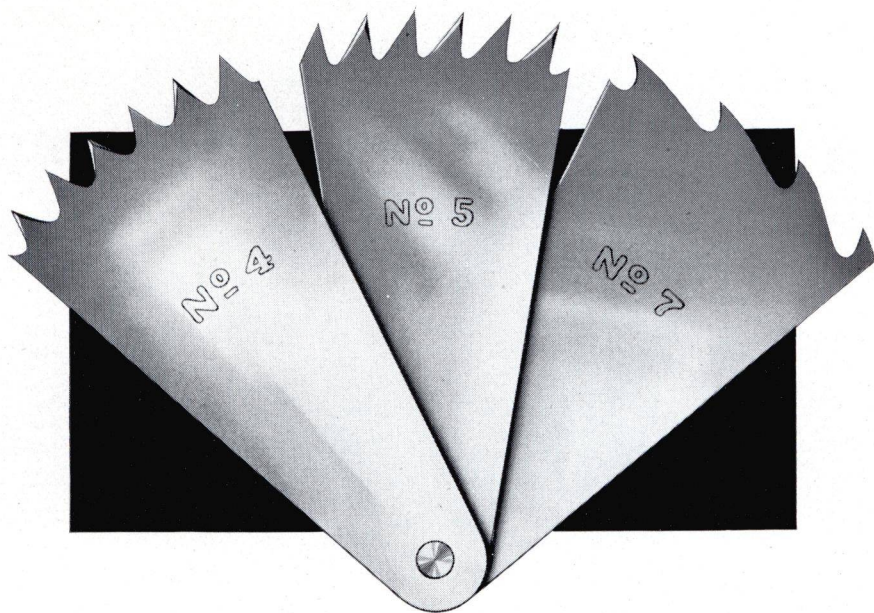


SOLID CIRCULAR SAWS
NARROW BAND SAWS
WOODWORKING KNIVES
CUTTER HEADS
ELECTRIC TOOLS
ABRASIVE WHEELS



CATALOG NO. 131

Styles of Circular Saw Teeth



This cut shows Standard Circular Saw Teeth now in use. When ordering, refer to the tooth style number in the above illustration.

Style No. 7 is the standard tooth for Rip Saws.

Style No. 5 is the standard tooth for Cut-off Saws.

Style No. 4 is used in Cut-off Saws where the material passes underneath the saw as in overhead trimmers, slashers, etc.

Simonds Circular Saws

Flattened Without Hammering

Such sudden and strenuous changes occur when a circular saw plate is hardened by being plunged when red hot into a cold oil solution that twists and strains in the plate are the inevitable result. These twists must be removed if the plate is to be flat.

Tempered Under Pressure

Tempering reduces the degree of hardness but does not alter the shape of the plate, at least when done in the ordinary way, which necessitates hammering the plate all over to get it approximately flat. The Simonds method of tempering under pressure flattens the plate at the same time, thus saving the abuse given the metal when flattened under the hammer. The less a saw plate is hammered, the better the finished saw.

Much of the unusual success of Simonds Circular Saws over other brands when operated under the most strenuous mill conditions is due to our scientific method of tempering and flattening under pressure, both operations being done at one and the same time.

This does not mean that a hammer never touches a Simonds circular plate. The teeth of the saw are punched on a large punch press, then lightly hammered to overcome

any deviation caused by punching the teeth.

Speed and Tension

Speed and tension are put in a finished circular by hammering. Filers and other millmen are thoroughly familiar with this process. A plate must be opened up, tensioned, as it is called, throughout a portion between the mandrel hole and the rim, to counterbalance the pull caused by centrifugal force when the saw is speeded up on a mill. The larger the plate and the higher the speed, the greater the required tensioning.

Our method of straightening the saw undoubtedly gives much more strength and standing up quality to a Simonds Saw than any other method ever used. We therefore make the claim that our saws will stand heavier crowding and heavier feed than any other saws on the market.

Know Your Mill

The kind of work done by a circular saw depends much on the condition of the mill. Amount of power, alignment of carriage, loose bearings, lost motions, and lead of the blade are questions to be carefully considered in relation to each individual equipment.



SIMONDS "THE SAW MAKERS"

SIMONDS SAWS PROPERLY HANDLED IN PERFECTLY GOOD LOGS MAKE PERFECTLY GOOD LUMBER

and that kind of lumber means profit for the manufacturer.

In order that our saws should be made of steel possessing just the de-

sired analysis, it is necessary for us to own and operate a modern and thoroughly up-to-date Steel Mill. This mill is located at Lockport, New York, equidistant from our factories at Fitchburg, Massachusetts, and Montreal, Quebec. We cordially invite all Millmen when near Lockport to call and see the manufacture of Simonds Steel.

The Average Speed of Circular Saws

Diameter Inches	Revolutions per Minute	Diameter Inches	Revolutions per Minute
8	5,700	40	1,150
10	4,570	44	1,040
12	3,810	48	955
16	2,805	52	880
20	2,290	56	820
24	1,910	60	765
28	1,640	64	715
32	1,430	68	675
36	1,275	72	635

The above table is figured on a rim speed of 12,000 feet per minute.



Simonds Standards Solid Tooth Circular Saws

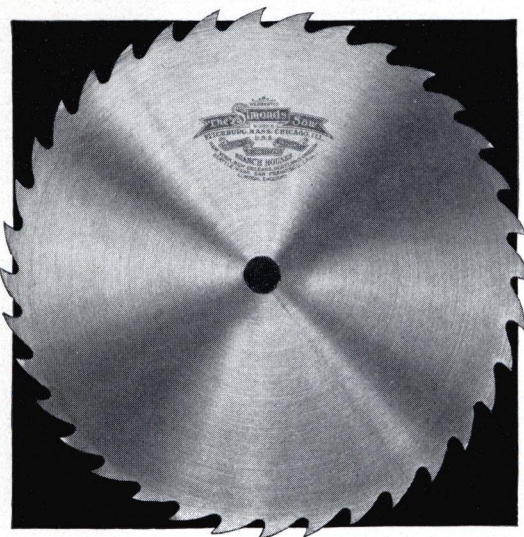
Diameter Inches	Gauge	Number of Teeth		Diameter Inches	Gauge	Number of Teeth	
		Rip	Cut-off			Rip	Cut-off
4	19	40	88	26	10		72
5	19	40	110		11	36	
6	18	40-50	100-132	28	10	36	72
7	13	20		30	8		72
7	14	20		30	9		72
7	18	40	110	30	10	36	72
8	17	44	100	32	8		72
8	18	44	100-120	32	10	36	72
10	12	30		34	9	36	72
10	13	30		36	7		80
10	14	24-30-36		36	8		80
10	15	30-36	90-128	36	9	36	72
10	16	36	72-100-150	38	8		80
12	12	24-30-36		38	9	36	
12	13	30-36		40	6		80
12	14	24-30-36	72-100-120-150	40	7		80
12	15	36	72-100-120-150	40	8		80
14	10	24-30-36		40	9	36	
14	12	24-30-36		40	10	36	
14	13	24-30-36	60-90-132	42	6		80
14	14	30-36-44	60-80-100-150	42	7		80
14	15	36		42	9	36-42	
16	10	24-30-36		42	10	36-42	
16	12	30-36	60-80-100	44	9 x 10	36	
16	13	30-36	60-80-100-150	46	9 x 10	40	
16	14	30-36-40	60-80-100-150-200	48	8 x 9	40	
18	9	30-36		48	9 x 10	40	
18	10	30-36		50	8 x 9	50	
18	12	30-36	60-80-100	50	9 x 10	40	
18	13	30-36-40	60-80-100	54	8 x 9	54	
20	8	24-30-36		56	6	80	
20	9	24-30-36		56	7	80-90	
20	10		72	56	8	80	
20	12	30-36	60-72	56	8 x 9	40-60-70	
20	13	36-40	60-80	56	9 x 10	40	
22	10		60	58	6	90	
22	11		72	58	7	80	
22	12	36	72	60	6	90	
24	8	24-30-36		60	7	80-90	
24	10	30-36	60-72	60	8	70-80	
24	11	36	60-72	60	8 x 9	50-60-70	
26	7	30		60	9 x 10	50-56	
26	8	30					

Cut-off Saws 44" and larger made to order.



SIMONDS "THE SAW MAKERS"

Solid Tooth Circular Saws Filed and Set Ready for Use

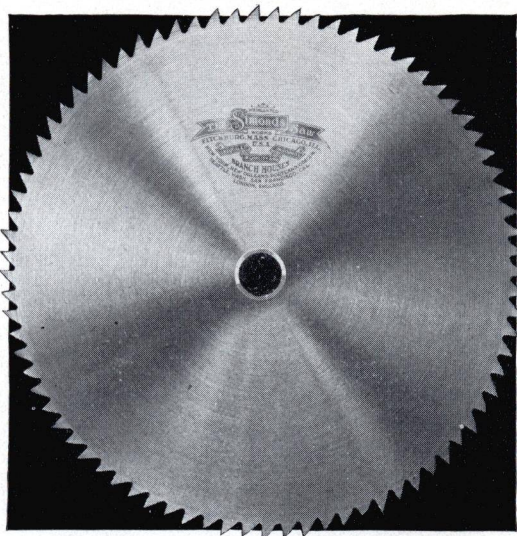


Diameter Inches	Base Gauge	Price Each	Extra for Each Gauge Heavier	Beveling New Saws Per Gauge
6	18	\$3.30	\$0.07	\$0.25
8	18	4.40	.10	.35
10	16	5.60	.20	.45
12	15	7.00	.30	.55
14	14	8.50	.40	.65
16	14	10.50	.50	.75
18	13	12.50	.60	.90
20	13	15.00	.75	1.05
22	12	17.50	.90	1.20
24	11	20.50	1.05	1.35
26	11	24.00	1.25	1.55
28	10	28.00	1.50	1.75
30	10	32.00	1.75	1.95
32	10	36.50	2.00	2.15
34	9	41.00	2.25	2.35
36	9	47.00	2.60	2.55
38	9	54.00	3.00	2.75
40	9	62.00	3.40	2.95
42	8	71.00	3.80	3.25
44	8	83.00	4.40	3.55
46	8	98.00	5.15	3.85
48	8	112.00	5.90	4.15
50	7	127.00	6.65	4.45
52	7	142.00	7.40	4.80
54	7	157.00	8.80	5.15
56	7	180.00	10.25	5.50
58	7	200.00	11.75	5.95
60	6	224.00	13.25	6.40

Write for Discounts



Solid Tooth Circular Saws



Diameter Inches	Base Gauge	Price Each	Extra for Each Gauge Heavier	Beveling New Saws Per Gauge
62	6	\$250.00	\$14.75	\$6.85
64	6	280.00	17.60	7.35
66	6	310.00	22.00	7.85
68	5	350.00	26.40	8.45
70	5	400.00	30.80	9.05
72	5	450.00	35.20	9.65
74	5	510.00	39.60	10.30
76	5	575.00	44.00	11.00
78	5	690.00	49.85	11.85
80	5	810.00	55.75	12.90
82	5	940.00	63.05	14.10
84	5	1,075.00	70.40	15.40

All saws less than 6 inches in diameter take list of 6 inch saw.

All saws filed and set ready for use.

All saws of odd diameters not listed take list of next larger size.

No extra charge for saws one gauge thicker than list.

No extra charge for saws one to three gauges thinner than list; when more than three gauges thinner than list, add 5 per cent for each gauge.

Saws 48 inches and under, and 62 inches and over, in diameter, more than two gauges thinner than list, not warranted. Saws 50 inches to 60 inches in diameter thinner than 10 gauges, not warranted.

Saws 42 inches or less in diameter beveled one gauge without extra charge; 44 inches or larger beveled two gauges without extra charge.

Saws hollow or concave ground, add for each gauge hollow or concave ground, double the list for beveling.

Saws for cutting bone, horn, ivory, pearl, bakelite, celluloid, fibre, formica, micarta, paper, rubber and similar materials (when flat ground) use above list; (when hollow or bevel ground) use metal cutting saw lists.

Write for Discounts



The Planer Saw



This saw will work successfully in soft or hard wood, whether ripping, cutting off, or mitering and will stand fast hand feed without rubbing or overheating.

The Simonds Planer Saw has been developed to replace the Novelty Saw and owing to our method of clearance grinding, it can be used on a far greater variety of work, at the same time giving the smooth cut formerly obtainable only in Novelty Saws.

It is made only in standard gauges and with four cutting teeth and a raker to each section and in the diameters listed below.

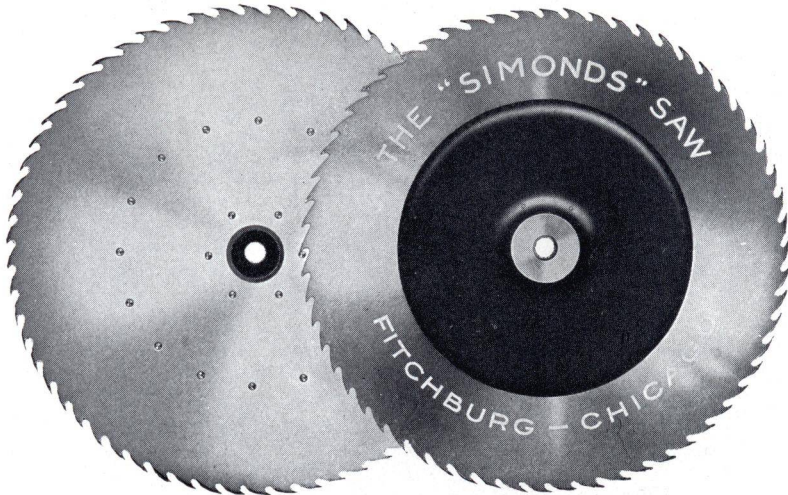
Give it a trial.

6 inch	\$5.55	16 inch	\$15.80
8 "	7.00	18 "	18.60
10 "	9.00	20 "	22.10
12 "	11.20	22 "	26.00
14 "	13.40	24 "	30.10

Write for Discounts



Shingle and Heading Saws



Diameter	Price Each	Diameter	Price Each
36 inch	\$62.00	48 inch	\$145.00
38 "	70.00	50 "	170.00
40 "	80.00	52 "	200.00
42 "	95.00	54 "	230.00
44 "	110.00	56 "	260.00
46 "	125.00	58 "	290.00
		60 "	320.00
		66 "	410.00

Above list is for saws beveled not more than 8 gauges, and with thickness at center of the same gauge as shown in Solid Tooth Circular Saw list for saws of same diameter, but one gauge thicker is allowed without extra charge.

For any additional thickness or beveling, add for each gauge thicker or gauge beveling as per Solid Tooth Circular Saw list.

When ordering Shingle or Heading Saws give the following specifications: diameter of saw in inches; thickness or gauge at center and at rim; number of teeth; right or left hand; speed of saw; name of maker of machine and size of flange.

If new flange is required, send full size template of old flange, showing size and location of all holes.

If saw only is required, send the old flange to us to be fitted to the saw, or if this cannot be done, send template of holes and a sample screw by which to drill and countersink saw.

Collars for Shingle and Heading Saws or Resaws

New Cast Iron Flanges for standard makes of shingle machines fitted to new saws. Price on application.

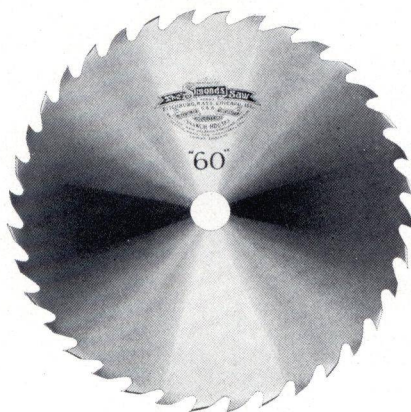
New Steel Flanges 8 inches to 26 inches in diameter, $\frac{3}{8}$ inch thick or less, fitted to new saws, either with screws or rivets. Price on application.

Fitting old flanges to new saws, \$8.00.

Write for Discounts



Simonds Circular Saws for Portable Hand Machines



The Simonds "60" is for fast general cutting—its teeth are set and filed. The tooth design is simple and therefore easy for any man to sharpen. It's easy to keep in condition. Sharp saws always cut best. Remember that and refile your saw. Keep your saw sharp. You will find attention to this detail worth many times the slight work involved in keeping a saw with a simple tooth design sharp. You can refile it yourself.

Made especially for electric hand saws after much experimenting that gives Simonds Saw Quality, yet so designed as to be easy to file and keep in condition.

Order by number, sending a rubbing of center hole of saw and also make of machine on which it is to be used as well as diameter of saw.

Simonds "60" is made in the following sizes:

Inches	Gauge	Teeth	List Price Each	Inches	Gauge	Teeth	List Price Each
6	18	36	\$3.30	9	16	40	\$5.60
7	18	36	4.40	10	16	40	5.60
8	17	36	4.40	11	15	44	7.00

Lathe Saws For Roughing Handles

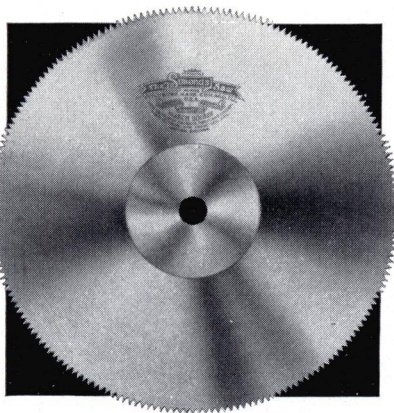
Diam. Inches	Base Gauge	Price Each	Extra for Each Additional Gauge (heavier)	Diam. Inches	Base Gauge	Price Each	Extra for Each Additional Gauge (heavier)
8	9	\$3.40	\$0.20	14	6	\$6.00	\$0.35
9	8	3.60	.20	15	5	6.60	.40
10	7	4.00	.25	16	5	7.40	.40
11	7	4.40	.30	..	..	....	....
12	6	4.80	.30	..	..	....	....
13	6	5.40	.35	..	..	....	....

All Lathe Saws less than 8 inches in diameter take list of 8 inch saw.

Write for Discounts



Simonds Circular Mitre Saws



Mitre Saws are ground tapering to the collar, to run without set and provide ample clearance. They are especially adapted to smooth, clean cutting such as cabinet and cigar-box work.

List Prices

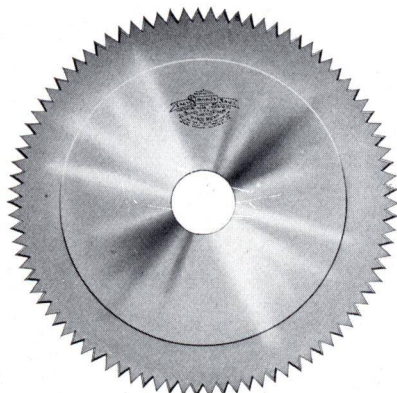
	Diameter Inches	Gauge at Hole	Gauge at Collar	Gauge at Teeth	Price Each	Extra for Each Gauge Heavier	Extra for Each Additional Gauge Concaving
Diam.	6"	8"	10"	12"	14"	16"	18"
Collar	2 1/2"	3 1/4"	3 1/2"	4 1/2"	5"	6"	6 1/2"
No. of Teeth	150	150	150	150	200	200	200
	6	16	19	16	\$5.40	\$.07	\$.50
	8	15	18	15	6.80	.10	.70
	10	14	17	14	8.60	.20	.90
	12	13	16	13	10.60	.30	1.10
	14	12	15	12	12.60	.40	1.30
	16	12	15	12	14.80	.50	1.50
	18	11	14	11	17.40	.60	1.80

Above list includes filing teeth so that saw is ready for use.

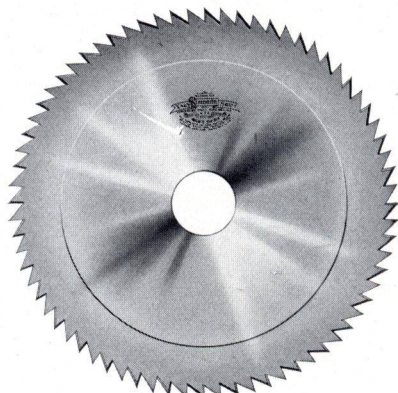
We do not recommend Circular Mitre Saws of thinner gauge than listed.

Write for Discounts

Thin Rim Special Ground Circular Saws



CUT-OFF TOOTH

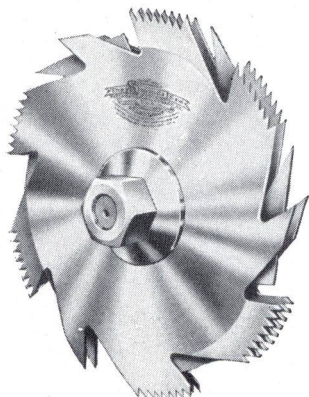


RIP TOOTH

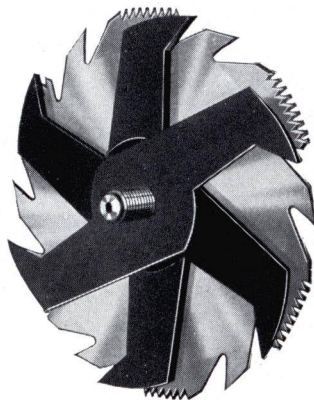
These saws, as may be seen in the sectional view, are ground very thin for a short distance back from the teeth, and the body of the saw is much thicker, to give strength and stiffness. They are made with either cut-off or rip teeth, for very fine, smooth, light cutting. These saws take the Mitre Saw Price List printed above.



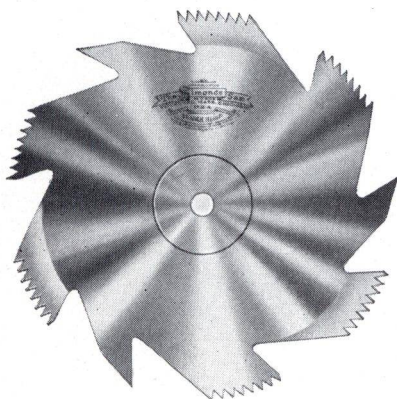
Simonds Groover or Dado Head



Assembled Dado Head



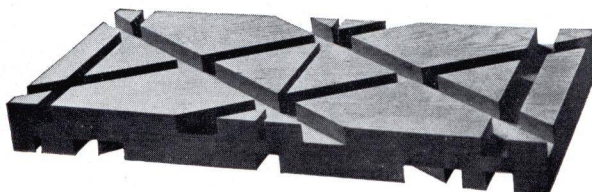
Showing Arrangement
of Dado Fillers



Outside Cutter



Filler



Grooves cut with a Simonds Dado

SIMONDS "THE SAW MAKERS"

Simonds Groover or Dado Head

Each outside saw is a special tooth solid groover saw, $\frac{1}{8}$ inch thick. A single saw will cut grooves $\frac{1}{8}$ inch wide and two cutters will cut grooves $\frac{1}{4}$ inch wide.

By using fillers, grooves measurable by sixteenth can be obtained beyond the $\frac{1}{8}$ and $\frac{1}{4}$ inch cuts made by the outside saws.

This tool cuts a clean groove in any direction in the wood and is easily kept in order. Fillers and rakers on the outside saws should be filed slightly below the marker or cutting points.

The Dado Heads are arranged in standard sets, as follows:

	Outside Saws	Fillers		
		1/16	1/8	1/4
No. 1 set cuts $\frac{1}{8}$ to $\frac{3}{8}$ by eighths	2		1	
No. 2 set cuts $\frac{1}{8}$ to $\frac{5}{8}$ by eighths	2		1	1
No. 3 set cuts $\frac{1}{8}$ to $\frac{3}{4}$ by sixteenths	2	1	2	1
No. 4 set cuts $\frac{1}{8}$ to 1 by sixteenths	2	1	2	2
No. 5 set cuts $\frac{1}{8}$ to $1\frac{1}{2}$ by sixteenths	2	1	2	4
No. 6 set cuts $\frac{1}{8}$ to 2 by sixteenths	2	1	2	6
No. 7 set cuts $\frac{1}{8}$ to 3 by sixteenths	2	1	2	10
No. 8 set cuts $\frac{1}{8}$ to 4 by sixteenths	2	1	2	14

Special sets made up to cut from 4 to 8 inches wide

DIAMETER, INCHES—List Price Per Set

No. of Set	6	7	8	9	10	11	12	14	16	18	20
1	\$11.50	\$13.15	\$14.85	\$16.50	\$19.00	\$21.65	\$25.15	\$29.65	\$34.50	\$37.15	\$43.85
2	13.85	15.65	17.50	19.35	22.00	24.85	28.65	34.00	39.85	43.15	50.35
3	16.60	18.65	20.85	23.00	26.00	29.15	33.35	39.35	45.65	50.00	58.35
4	18.90	21.15	23.50	25.85	29.00	32.35	36.85	43.65	51.00	56.00	65.85
5	23.60	26.15	28.85	31.50	35.00	38.65	43.85	52.35	61.65	68.00	80.85
6	28.25	31.15	34.15	37.15	41.00	45.00	50.85	61.00	72.35	80.00	95.85
7	37.60	41.15	44.85	48.50	53.00	57.65	64.85	78.35	93.65	104.00	125.85
8	46.90	51.15	55.50	59.85	65.00	70.35	78.85	95.65	115.00	126.65	155.85

FILLERS—List Price Each

Diam. In.	Thickness, Inches			Diam. In.	Thickness, Inches			Diam. In.	Thickness, Inches		
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$
5	\$0.90	\$1.50	\$2.00	9	\$1.50	\$2.15	\$2.85	14	\$2.35	\$3.00	\$4.35
6	1.10	1.65	2.35	10	1.65	2.35	3.00	16	2.65	3.15	5.35
7	1.20	1.85	2.50	11	1.85	2.50	3.15	18	3.00	3.85	6.00
8	1.35	2.00	2.65	12	2.00	2.65	3.50	20	3.50	4.50	7.50

SPECIAL TOOTH SOLID GROOVER SAWS—List Price Each

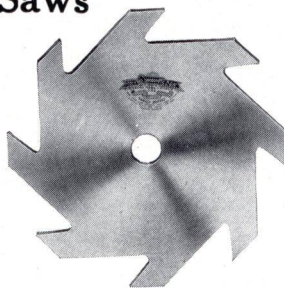
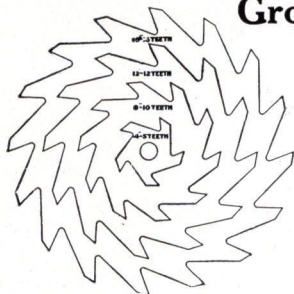
Diameter Inches	Thickness, Inches						
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2
5	\$ 4.15	\$ 5.00	\$7.10	\$ 9.15	\$11.50	\$13.15	\$14.85
6	4.90	5.85	8.35	10.85	13.15	14.85	16.50
7	5.65	6.65	9.60	12.50	14.85	16.50	18.65
8	6.40	7.90	11.25	14.50	16.50	18.15	20.85
9	7.15	9.15	12.90	16.65	18.35	20.00	23.00
10	8.35	10.40	14.60	19.15	20.85	22.90	26.00
11	9.60	12.50	16.25	21.65	23.35	25.40	29.15
12	11.25	13.75	20.00	24.15	26.85	29.15	33.35
14	13.35	15.00	25.00	26.65	31.35	33.85	39.35
16	15.70	16.65	30.00	33.35	36.15	39.15	45.65
18	17.50	19.50	35.00	38.50	42.00	45.50	50.00
20	20.00	22.00	40.00	44.00	48.00	52.50	58.00

Write for Discounts



SIMONDS "THE SAW MAKERS"

Grooving Saws



Diam. Inch	No. of Teeth	Thickness								
		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
4	5	\$3.60	\$3.80	\$6.20	\$7.00	\$8.00	\$8.80	\$9.60	\$14.00	\$14.60
5	6	4.20	4.40	7.20	8.00	9.20	10.20	11.20	16.80	17.80
6	8	5.20	5.40	8.20	9.20	10.40	11.60	12.80	19.60	21.00
7	8	6.00	6.40	9.20	10.40	11.60	13.00	14.40	22.80	23.60
8	10	6.80	7.40	10.20	11.60	13.20	14.80	16.40	26.00	27.00
9	10	7.40	8.40	11.40	13.00	14.80	16.60	18.40	29.20	31.00
10	10	8.20	9.40	12.60	14.40	16.40	18.40	20.40	33.40	35.00
11	11	10.60	11.80	14.00	16.80	18.80	21.00	22.40	36.60	39.00
12	12	11.60	12.80	15.40	19.20	21.40	23.60	24.80	39.80	43.00
14	14	13.80	15.40	17.80	22.20	26.00	28.20	29.80	45.00	49.80
16	16	15.40	18.40	21.20	26.00	30.60	33.40	35.60	53.00	59.00

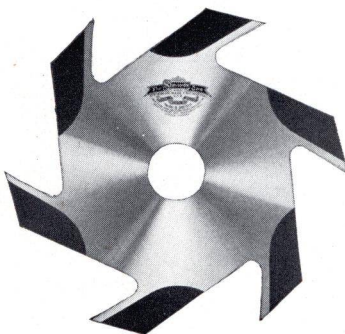
All Grooving Saws under 4 inches in diameter take 4 inch list.

Beveled Tooth Grooving Saws, add 10 per cent to above prices.

Grooving Saws with teeth shaped and backed off, add 50 per cent to above prices.

Special Grooving Saws made to order, special prices.

Lock Corner Cutters



All Lock Corner Cutters are furnished with teeth scarfed as shown above.

In lots of less than 10 use groover saw list plus 35 cents per tooth for scarfing.

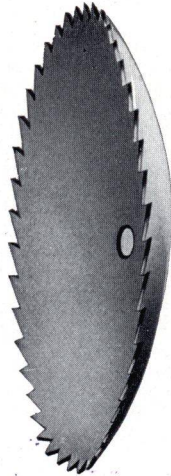
In lots of more than 10 use groover saw list plus 20 cents per tooth for scarfing.

The additional price per tooth for scarfing is subject to same discount as saws.

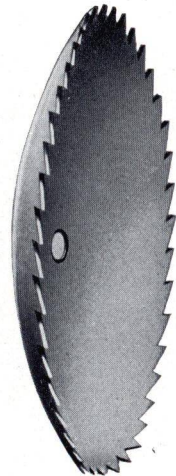
Write for Discounts

Concave Saws

When ordering Concave Saws give circle to be dished to; or give the diameter of the old saw and the amount of drop in the old saw, accurately measured; also give the greatest diameter of the heading to be cut. State which side is to be dished or concaved, right or left hand, as the saw runs toward you.



LEFT HAND SAW



RIGHT HAND SAW

			for each additional gauge				for each additional gauge
6 inch	16 gauge	\$9.00	\$0.10 extra	12 inch	14 gauge	\$17.40	\$0.40 extra
7 "	15 "	10.20	.12 "	14 "	13 "	20.25	.55 "
8 "	15 "	11.40	.15 "	16 "	13 "	23.25	.70 "
9 "	15 "	12.75	.20 "	18 "	12 "	26.70	.85 "
10 "	14 "	14.25	.25 "	20 "	12 "	30.75	1.00 "
11 "	14 "	15.75	.30 "				

Saws concaved to a circle 16 inches and under, advance 20 per cent. Extra sizes made to order

Edger Saws (Solid Tooth)

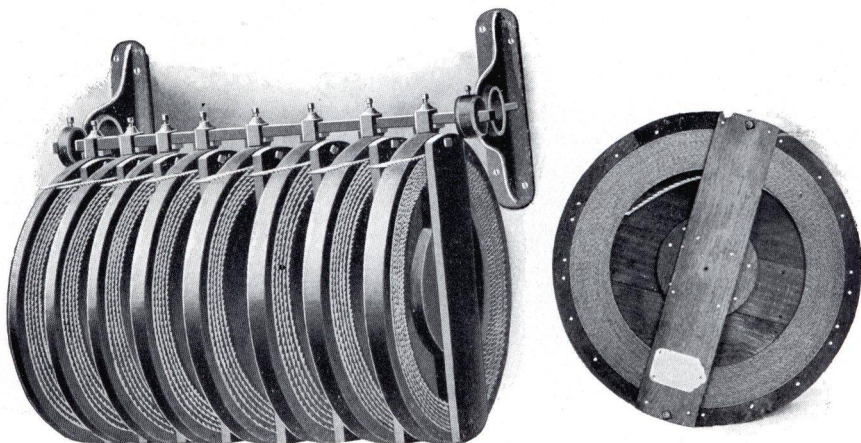
Diameter Inches	PRICE				
	Gauge 8	Gauge 9	Gauge 10	Gauge 11	Gauge 12
12	\$8.80	\$8.50	\$8.20	\$7.90	\$7.60
14	10.50	10.10	9.70	9.30	8.90
16	13.00	12.50	12.00	11.50	11.00
18	14.90	14.30	13.70	13.10	....
20	18.00	17.25	16.50	....	....
22	20.20	19.30	18.40	....	....
24	22.60	21.55	20.50	....	....

NOTE.— List prices of all Edger Saws are figured by using Solid Tooth Circular Saw list, adding extra gauges heavy, allowing one gauge heavier than base without extra charge.

Write for Discounts



Simonds Narrow Band Saws



Simonds Narrow Band Saws are furnished either joined, or as separate saws, or in coils as shown above, 250 feet to a coil.

Our aim is always to have high quality saws.

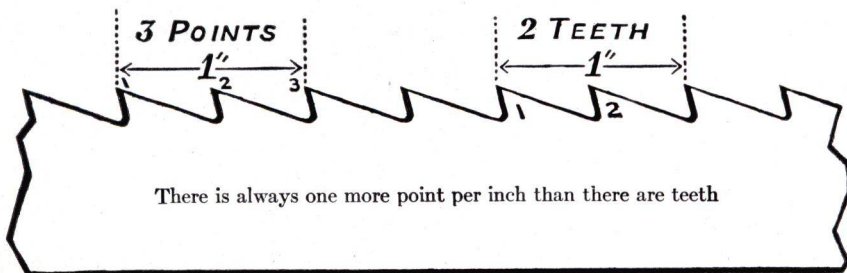
We have originated a Rig for carrying Narrow Band Saws in stock.

The Rig is furnished free with an order for 2,000 or more feet of Narrow Band Saws, assorted in such sizes as may be your best sellers. A well assorted stock for the Rig would cover saws from $\frac{3}{16}$ to 1 inch wide.

The saw revolves only when projecting piece is pulled out from its board. By using this Rig, a larger assortment in gauges and widths can be carried, and less space be taken. The Rig will often save enough odd inches per coil to make an extra saw.

Points or Teeth?

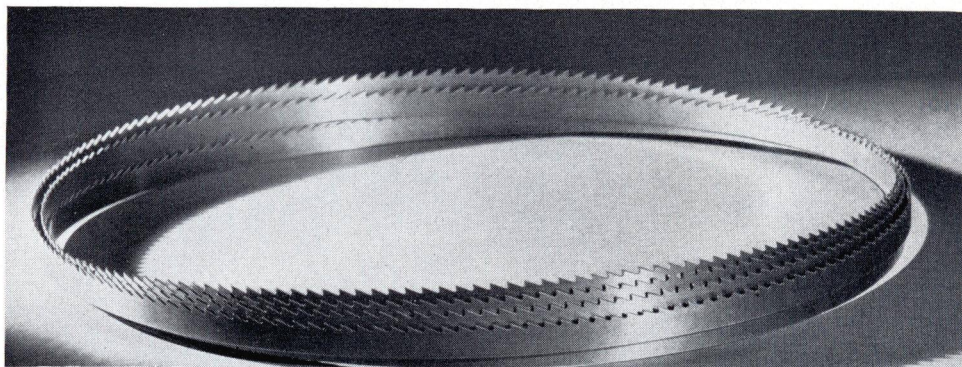
The illustration herewith shows clearly the difference between "points per inch" and "teeth per inch." When ordering Narrow Band Saws always specify the number of teeth per inch.



SIMONDS "THE SAW MAKERS"

Simonds New Brown Narrow Band Saws

Made of Simonds Wear-resisting Steel



SPECIAL NOTICE—Narrow Band Saws are furnished *Set* and *Filed*, but not *Welded* unless specified.

Standard Narrow Band Saw List

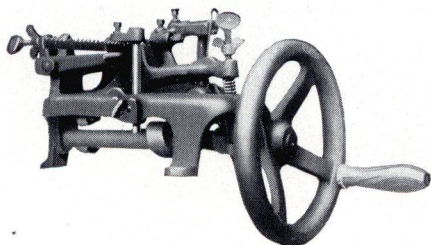
Width Inches	Gauge	Teeth per Inch	List Price per Foot	Width Inches	Gauge	Teeth per Inch	List Price per Foot
$\frac{1}{8}$	22	6	\$.13	$\frac{1}{2}$	21	4	\$.15
	25	6	.13			5	.15
$\frac{3}{16}$	22	4	.13		22	5	.15
		5	.13		25	6	.15
		6	.13	$\frac{5}{8}$	20	2	.16
$\frac{1}{4}$	25	6	.13		21	3	.16
	21	3	.13			4	.16
		4	.13	$\frac{3}{4}$	20	2	.18
		5	.13			3	.18
	22	4	.13			3	.18
		5	.13		21	4	.18
		6	.13			5	.18
$\frac{3}{8}$	25	6	.13	1	19	2	.22
	21	3	.14			3	.22
		4	.14		20	4	.22
		5	.14		$1\frac{1}{4}$	2	.26
	25	6	.14			3	.26
				$1\frac{1}{2}$	20	2	.32
$\frac{1}{2}$	21	2	.15			3	.32
		3	.15				

Above prices cover Saws Set and Filed, but not Welded. If not Filed and Set, deduct 4 cents per foot.

Welding— $\frac{1}{8}$ to $\frac{1}{2}$ inch.....	\$.50 each
$\frac{5}{8}$ to $\frac{7}{8}$ inch.....	.60 each
1 to $1\frac{1}{4}$ inch.....	.70 each
$1\frac{1}{2}$ inch.....	.80 each



Setting Machine for Band Saws



The teeth are set absolutely uniform, which necessitates and guarantees a clean cut.

Saws from $\frac{1}{8}$ inch to $1\frac{1}{2}$ inch in width can be set without bending the smaller saws, as the vise grasps the saw perfectly tight, setting the teeth during the movement; all saws which have been bent before, being straightened out at the same time.

Saws set with this machine do not crack at the edges of the teeth, as points only of the teeth are set, and not the entire tooth.

A saw 20 feet in length can be set in three minutes.

Price \$26.25

Automatic Filing Machine

For Band Saws

It takes but a few minutes to regulate this machine. It needs no attention after once being started.

By means of a joint, sufficient time is given the file to get properly located in the tooth of the saw before the filing operation begins.

The file falls into the tooth of the saw, imitating exactly the movement of the human hand.

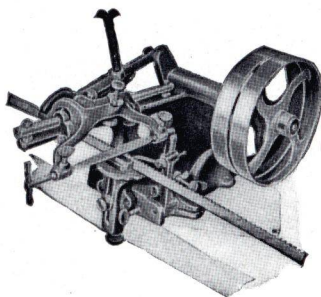
The file works by the pressure of a spring, and comes down in the tooth in a bevel line, receding the same way after the file stroke, filing out equally both top and bottom of tooth.

The teeth of the saw are kept a proportionate height, every single tooth coming to the cut, thus keeping the saw sharp longer.

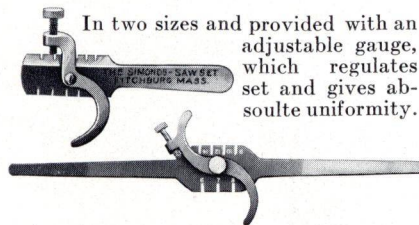
Any ordinary saw file can be used with this filing machine.

Saws from $\frac{1}{8}$ to $1\frac{1}{2}$ inch wide, and any length, can be filed at the rate of ninety teeth per minute.

Price \$50.00



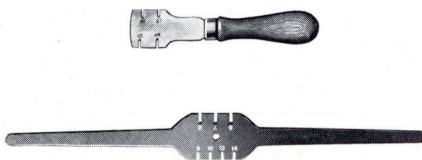
Adjustable Saw Sets



No. 301. Saw Set with one handle, for small circulars and band saws will take saws 14 to 19 gauge in thickness, \$4.25.

No. 302. Saw Set, for medium and large circulars. Will take saws 6-7-8-9-10-12-14 gauge in thickness, \$6.50.

Saw Sets

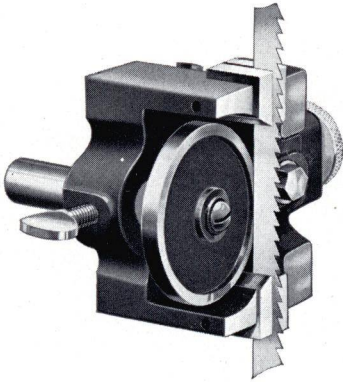


No. 303. Saw Set with one handle. Will take saws 14 to 17 gauge in thickness, \$2.25.

No. 304. Saw Set with two handles. Will take saws 6-7-8-9-10-12-14 gauge in thickness, \$5.00.

Write for Discounts

Scroll Band Saw Guide



The back of the saw on this saw guide runs against the face of a tempered tool steel disk, ground true and smooth. The heating and crystallization of the blade and the consequent tendency to crack or break is prevented.

The disk spindle has a long, accurately fitted bearing socket and is self-oiling.

The end of the disk spindle bears against a hardened steel ball and the pressure on back of saw is regulated by a spiral spring.

If the band saw construction requires a very short guide, the spiral spring may be omitted. The omission of the spring from the smaller guides in no way impairs the efficiency.

The side guides or jaws are of tool steel, hardened and polished, and practically frictionless, interchangeable, that is, either R. H. or L. H., and

all sizes of guides are equipped with knurled screw adjustment for opening the jaws.

No. 0	$\frac{1}{8}$ to $1\frac{1}{4}$ inch	List Price	\$10.00
No. 1	$\frac{1}{8}$ to $1\frac{1}{2}$ inch	List Price	12.50
No. 2	$\frac{1}{4}$ to $2\frac{1}{2}$ inch	List Price	15.00

In ordering No. 0 Guides, be sure to specify whether for use above or below the table. We supply a shorter socket when wanted for use below the table.

Guides can be applied to all Scroll Band Sawing Machines

Simonds Silver Solder

For Brazing Band Saws

A good flowing and strong solder.

Made in the following widths: $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ and 1 inch.

Thickness: .003 inch.

Put up in one-ounce brass boxes.

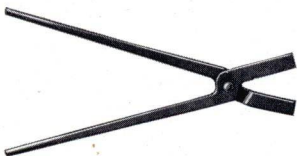
Price\$1. per ounce



Band Saw Brazing Clamp and Tongs



Clamps
List Price
\$5.00



Tongs
List Price
\$1.50

Improved Saw Filing Clamp



List Price,\$12.00

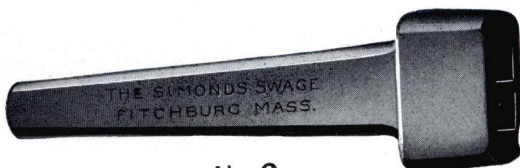
Write for Discounts



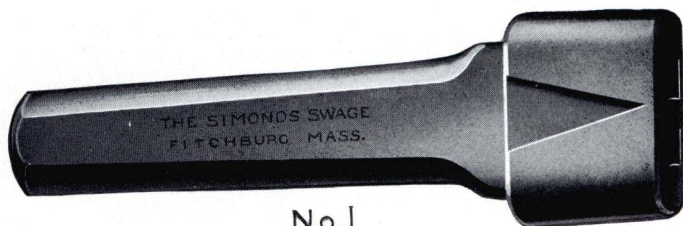
Swages or Upsets



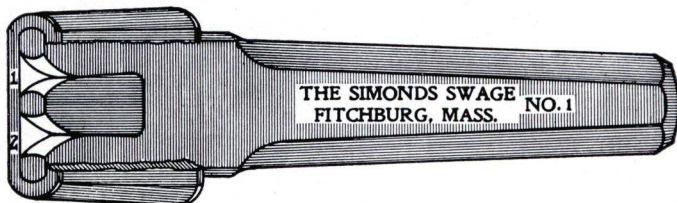
No.3



No.2



No.1



This sectional view shows the construction of the Simonds Swage. Jaw No. 1 spreads or shapes the point of the tooth. Jaw No. 2 squares up the cutting edge and gives body to the swaged point.

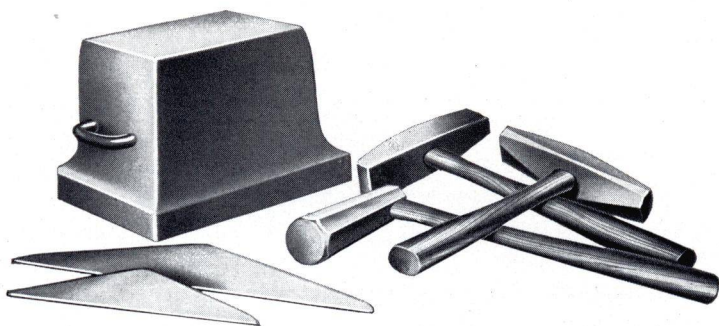
	Each	Net Weight
Simonds Swage, No. 1, for saws 10 gauge and heavier.....	\$5.50	18 ounces
" " No. 2, for saws 11 gauge and lighter.....	4.50	8 "
" " No. 3.....	3.50	3 "
" " (Special), for wide Band Saws.....	4.50	8 "
" " No. 4, for fine tooth saws.....	1.25	2 "

Write for Discounts



Saw Makers' Tools

Anvils, Hammer and Straight Edges



- Circular Saw Anvils..... Prices on application.
 Cast Steel Face, Hardened and Polished.
 Saw Makers' Hammers.....\$2.00 per lb.
 No hammer at less than 2½ lbs.
 Straight Edges—Under 5 feet.....(Minimum Price, 1 foot) \$2.00 per ft.
 Over 5 feet, prices quoted on application.
 Band Saw Anvils. Prices on application.

We are prepared to furnish any standard make of Saw Fitting and Sharpening appliances. Prices on application.

Swage Bar and Hammer



Swage Bars made with eight sides only

Swage Bar No. 1, 11 × 1 × ½ inch.....	each	\$7.00
“ “ “ 2, 11 × 1¼ × ⅝ “	“	8.40
“ “ “ 3, 11 × 1½ × ¾ “	“	9.70
“ “ “ 4, 11 × 1¾ × ⅞ “	“	11.00
Hammers.....	“	2.75

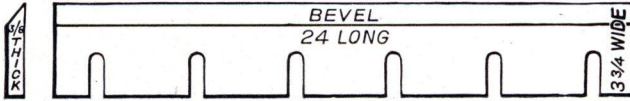
Any size or shape of Swage Bar furnished at special price.



Simonds Machine Knives

We make any kind of a knife for any kind of a machine for any kind of work, and will guarantee the very best possible results relative to temper, uniformity, cutting qualities, finish, and length of service.

When Ordering Knives



State number of knives wanted, number of sets, number in set, length, width, thickness, name and make of machine, and kind of wood to cut.

The cutting edge always constitutes the length of the knife.

When possible, furnish a pattern. Place the knife face down on the paper, mark around to show the length of the knife and size and position of slots, and be sure to state the width and thickness, as shown in diagram; also state the number of knives in set, and the temper required, whether high, to grind only; medium, to file slowly; or low, to file easily.

We make a wooden pattern like each paper pattern sent us, stamp the same with name of party ordering and date the order is received, and preserve for future use.

It is well to send an old knife or a pattern showing the holes or the slots. This is particularly true in ordering Planer Knives, Paper Knives, Barker and Chipper Knives, etc.

Heat Treating

Our furnaces are all controlled by pyrometers, which register the exact heat; and if we know the wood which you are to plane, it is an easy

matter for us to decide what temper to leave the knife and what degree of heat to use in order to get the exact temper for the work which is to be done. It is well to specify the kind of wood which you wish to plane and the feed per minute.

Our method is such that we keep an accurate record of the temper of every knife that we make. If we have succeeded in giving you a knife of the right temper, when ordering again refer to former order, and we can duplicate the temper and quality as previously furnished.

The varieties of temper adapted for Planer Knives, Paper Knives, Veneer Cutting Knives, Leather Knives, Tobacco Knives, Hog Knives, as well as other knives are most carefully selected. At the same time, much attention is given to the balancing, grinding, finishing and packing of all knives, and an absolute guaranty is given that the knives furnished will prove entirely satisfactory. We are specialists in knife making, having made knives since 1832, and we would like to take up with you any question at all regarding the making of knives to fit your special work. Write us regarding any troubles which you

The chief qualities of Simonds Red Streak Knives are cutting efficiency, toughness, and resistance to temper drawing. Owing to the heat generated in fast feeding this last item is of great importance and the Simonds Red Streak High Speed Steel Knife has made for itself a remarkable reputation during the past few years, due largely to its ability to stand a higher temperature without softening in use.

When grinding High Speed Steel Knives, remember that you are working with a fine cutting tool and treat it accordingly.

Moulding Knives

These knives are made in six different types.

SOLID CARBON STEEL BLANKS (UNTEMPERED)

SOLID CARBON STEEL
PLATED CARBON STEEL
"TUNGSWELD" STEEL
HIGH SPEED STEEL
HIGH SPEED STEEL
(CORRUGATED BACKS)

SELF-HARDENING STEEL

The above, with the exception of Solid Carbon Steel Blanks (untempered) are furnished either with straight beveled edge or with edge formed to cut any desired pattern of moulding.

Hog Knives

Edgings and other waste material about a saw mill or planing mill are cut in a machine called a "Hog," into small pieces to be used as fuel. The knives used on these machines are subjected to terrific abuse. Knots, stones, and pieces of metal

are constantly finding their way into the Hog. Because of this, Hog Knives must be hardened and tempered to stand the roughest kind of work. Simonds Saw and Steel Company's shock-resisting Hog Knives are made of solid steel, hardened and tempered to hold their edge under all conditions.

Most Hog Knives are furnished with a single bevel cutting edge. Simonds makes Hog Knives to fit all standard machines.

Anvil Knives for Hog Machines

These knives also must stand the roughest kind of abuse being, as the name suggests, the anvil upon which the material that is thrown into the Hog is chopped up by the Hog Knives.

They are made of Simonds Steel hardened and tempered to stand this terrific pace.

Barker Knives

Barker Knives are used to remove the bark from pulp wood logs. Because of the rough work they do the Simonds Barker Knives are made of steel, heat treated to stand up under most adverse conditions. These knives are made to fit standard machines and are furnished either with round or square corners.

Chipper Knives

Chipper Knives for economical operation must be extremely tough to stand the severe usage they are subjected to and must also hold an extremely sharp cutting edge to keep the percentage of sawdust low.



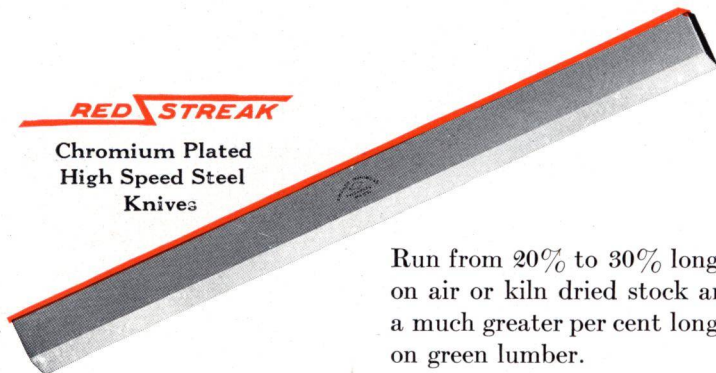
Simonds Knives



Planer Knife

RED STREAK

Chromium Plated
High Speed Steel
Knives



Run from 20% to 30% longer
on air or kiln dried stock and
a much greater per cent longer
on green lumber.



"Tungsweld" Planer Knife

The Knife with welded High Speed Steel cutting edge



Chair Bottom Knife



Moulding
Knife

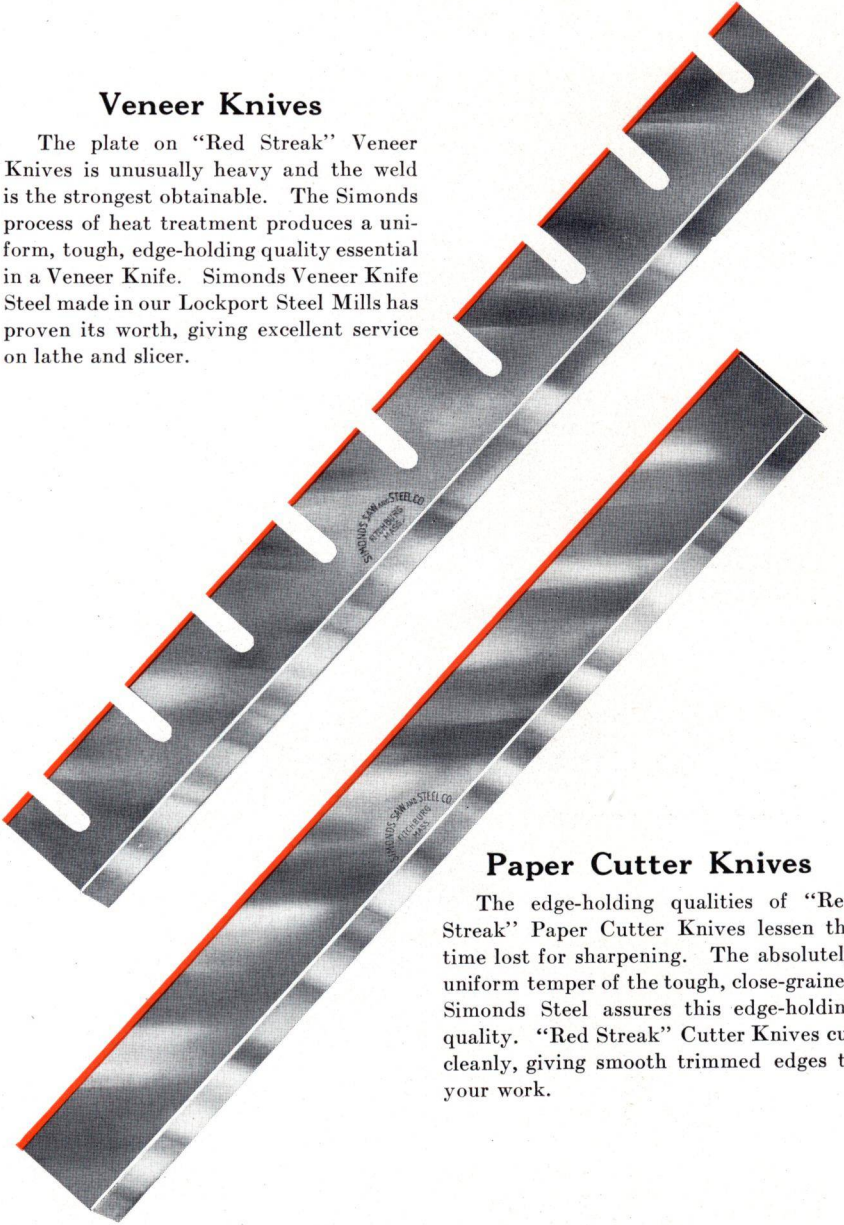


Beveled Steel

Simonds Knives

Veneer Knives

The plate on "Red Streak" Veneer Knives is unusually heavy and the weld is the strongest obtainable. The Simonds process of heat treatment produces a uniform, tough, edge-holding quality essential in a Veneer Knife. Simonds Veneer Knife Steel made in our Lockport Steel Mills has proven its worth, giving excellent service on lathe and slicer.

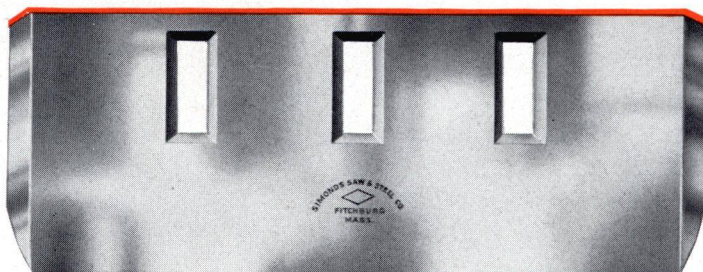


Paper Cutter Knives

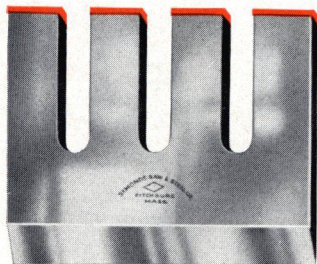
The edge-holding qualities of "Red Streak" Paper Cutter Knives lessen the time lost for sharpening. The absolutely uniform temper of the tough, close-grained Simonds Steel assures this edge-holding quality. "Red Streak" Cutter Knives cut cleanly, giving smooth trimmed edges to your work.

SIMONDS "THE SAW MAKERS"

Simonds Knives



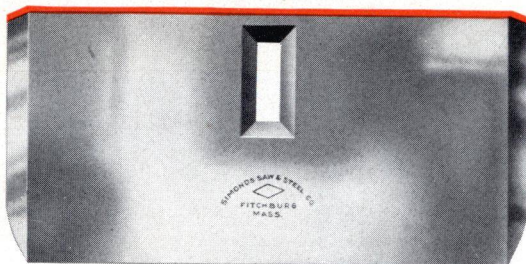
Chipper Knife



Hog Knife



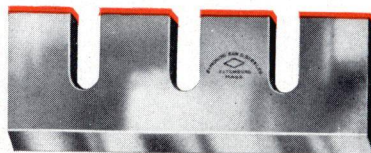
Hog Knife



Beveled End Chipper Knives
Made with one or more slots



Barker Knife

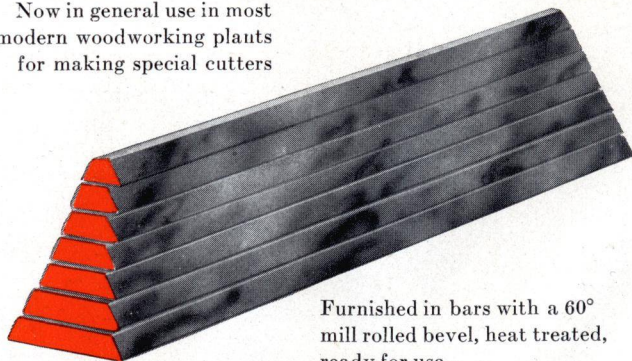


Barker Knife

SIMONDS "THE SAW MAKERS"

Simonds Beveled-edged Shaper Steel

Now in general use in most
modern woodworking plants
for making special cutters



Furnished in bars with a 60°
mill rolled bevel, heat treated,
ready for use.

Self-hardening or Semi High Speed Shaper Steel

With Mill Rolled 60° Bevel—Not Ground

In Bars 24 inches long

Width Inches	Thickness				Width Inches	Thickness			
	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "		$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "
1 or less	\$ 5.94	\$ 8.32	\$10.70	\$13.08	2 $\frac{1}{4}$	\$10.90	\$15.26	\$19.60	\$23.96
1 $\frac{1}{4}$	6.98	9.82	12.68	15.38	2 $\frac{1}{2}$	11.88	16.64	21.38	26.14
1 $\frac{1}{2}$	7.92	11.10	14.42	17.74	3	13.46	18.86	24.24	29.62
1 $\frac{3}{4}$	8.88	12.48	16.02	19.66	3 $\frac{1}{2}$	15.06	21.08	27.08	33.12
2	9.90	13.86	17.82	21.78	4	16.64	23.30	29.94	36.60

12-inch bars one-half above prices

Bars sold only in 12" or 24" lengths; no additional charge for cutting to shorter lengths

8-30-34

High Speed Bevel Edge Shaper Steel Heat Treated and Ground

List Price per Bar in 24-inch Lengths

Width Inches	Thickness				Width Inches	Thickness			
	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "		$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "
1 or less	\$10.80	\$15.12	\$19.44	\$23.76	2 $\frac{1}{4}$	\$19.80	\$27.72	\$35.64	\$43.56
1 $\frac{1}{4}$	12.68	17.86	23.04	27.94	2 $\frac{1}{2}$	21.60	30.24	38.88	47.52
1 $\frac{1}{2}$	14.40	20.16	26.22	32.26	3	24.48	34.28	44.08	53.86
1 $\frac{3}{4}$	16.14	22.68	29.10	35.72	3 $\frac{1}{2}$	27.36	38.30	49.24	60.20
2	18.00	25.20	32.40	39.60	4	30.24	42.34	54.44	66.52

12" Bars—one-half above prices.

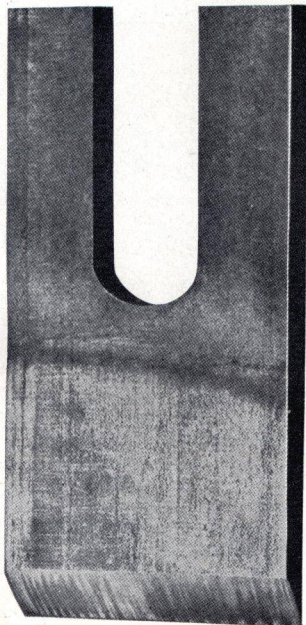
For cutting 24 or 12 inch bars into shorter lengths, add 20 cents per cut to price of bar.

Self-hardening and High Speed Shaper Steel when ordered in shorter than standard lengths charge will be made for full length bars plus cutting. Any pieces left from bar after cutting will be sent to customer.

Write for Discounts



Self-hardening Steel Moulding Cutter Blanks



The Simonds Self-hardening Cutters are the most economical cutters. This is due to their great efficiency and long life. You know they are made of Simonds Own Self-hardening Steel and are all ready to be ground to shape—no further heat treatment is necessary. Many shops using the Simonds Self-hardening Steel Moulding Cutters have found them four or five times more efficient than carbon steel cutters.

List Prices

Self-hardening Steel Moulding Cutters, either Square or Rough Beveled Edge, not furnished over 6" long.

The width of a knife is the greatest distance from cutting edge to back edge.

$\frac{3}{8}$ " Thick or Less.

	2" long or less	Over 2" to 4"	Over 4" to 6"
4" wide or less	\$2.80	\$4.60	\$6.50
Over 4" to 5"	3.36	5.52	7.80
Over 5" to 6"	3.92	6.44	9.10

Advance for extra thickness,

Over $\frac{3}{8}$ " to $\frac{7}{16}$ " thick.....	10%
Over $\frac{7}{16}$ " to $\frac{1}{2}$ " thick.....	15%
Over $\frac{1}{2}$ " to $\frac{5}{8}$ " thick.....	20%

Write for Discounts



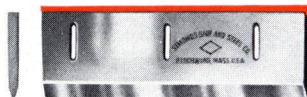
Simonds Knives



Union Leather Splitter Knife



Curved Fur Bed Knife



Double Bevel
Leather Splitter Knife



Union Leather Splitter Knife



Band Knife Jaw or Guide

Simonds Belt Knives

Simonds high grade belt knives are sold extensively throughout the world.

Made of electric furnace steel.

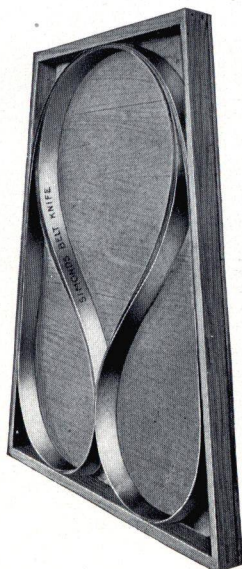
When ordering give carefully length and width of belts or make and size of machine.

Packed neatly in crates or boxes holding from 1 to 24 each.

Prices quoted on application.

Standard Sizes

Machine	Length	Width	Thickness	Bevel
24"	18' 5 1/4"	3 1/4"	.051	3/16" double
36"	21'	3 1/4"	.051	3/16" double
57"	24' 5"	3 1/4"	.051	3/16" double
72"	27'	3 1/4"	.051	3/16" double
84"	28' 11 1/2"	3 1/4"	.051	3/16" double
106"	32' 7"	3 1/4"	.051	3/16" double



Simonds Shears and Slicers



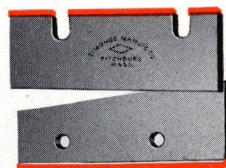
Tack Shears



Angle Shears



Scrap Iron Shear

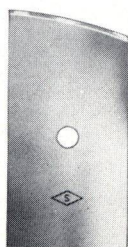


Boiler Plate Shears

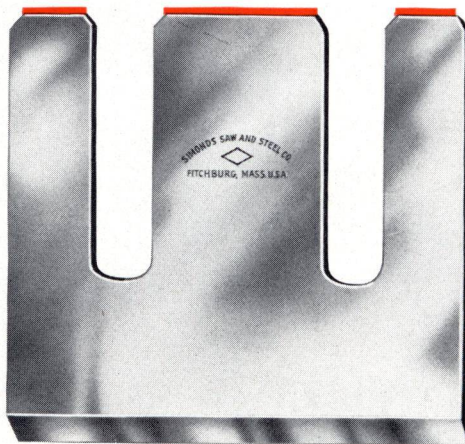


Vegetable Slicers

Simonds Knives



**Wafer
Cigarette Cutters**

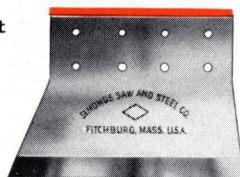


Legg Tobacco Knife

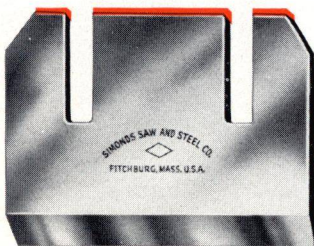


Cigarette Cutter

Cigarette Belt



Foreign Tobacco Knife



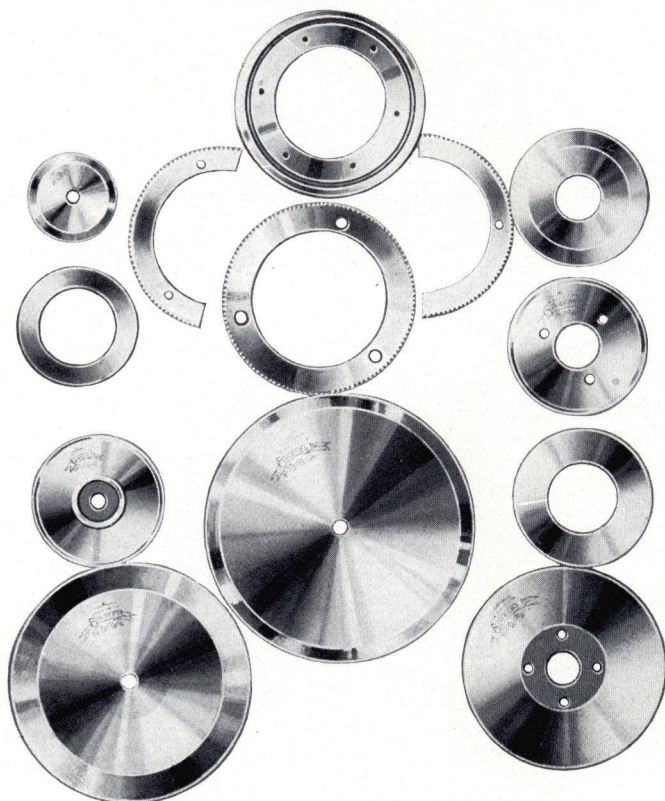
Pease Tobacco Knife



Pease Tobacco Knife

SIMONDS "THE SAW MAKERS"

Simonds Circular Cutters for Paper, Cork, Rubber, Cloth, and Leather



Diameter	List Price	Thickness
10 inches and less	\$0.57 per inch in diameter	$\frac{3}{32}$ inch
Over 10 to 12 inches	.65 " " " "	$\frac{1}{8}$ "
" 12 " 14 "	.72 " " " "	$\frac{1}{8}$ "
" 14 " 16 "	.80 " " " "	$\frac{1}{8}$ "
" 16 " 18 "	.88 " " " "	$\frac{5}{32}$ "
" 18 " 20 "	.95 " " " "	$\frac{5}{32}$ "
" 20 " 22 "	1.04 " " " "	$\frac{5}{32}$ "
" 22 " 24 "	1.12 " " " "	$\frac{5}{32}$ "
" 24 " 26 "	1.20 " " " "	$\frac{3}{16}$ "
" 26 " 28 "	1.27 " " " "	$\frac{3}{16}$ "
" 28 " 30 "	1.35 " " " "	$\frac{3}{16}$ "
" 30 " 32 "	1.51 " " " "	$\frac{3}{16}$ "
" 32 " 34 "	1.68 " " " "	$\frac{1}{4}$ "
" 34 " 36 "	1.90 " " " "	$\frac{1}{4}$ "

For Cutters heavier than listed add 5 per cent for each $\frac{1}{64}$ inch heavier.

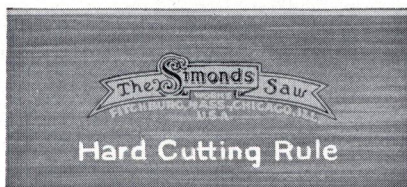
When ordering give diameter, gauge, size of hole, whether beveled on both sides or only on one, and how deep bevel is to run.



SIMONDS "THE SAW MAKERS"

SIMONDS Steel Rule Standards

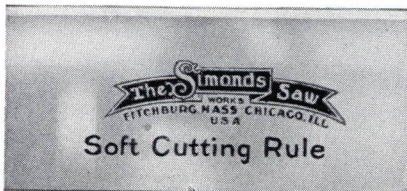
CUTTING RULE



HARD—*Straw Color*



MEDIUM HARD—*Black*



SOFT—*Polished*

HARD—*Straw* Straight work, slight bends and circular bends, $\frac{1}{2}$ " diameter and over.

MEDIUM HARD—*Black* Circular bends as small as $\frac{1}{8}$ " diameter and medium angular bends.

SOFT—*Polished* Extreme bends. Rule may be hardened for longer wear.

STANDARDS

Kind	Length	Height	Thickness	Temper
Cutting	24"-30"	923-937	2 pt.	Hard, Medium Hard, Soft
	30"	937	3 pt.	Medium Hard
Creasing	24"-30"	895-900-907-918	2 pt.	Medium Hard
*Perforating	24"	937	2 pt.	Med. Hard Pol. $8\frac{1}{4}$ -12-17 Teeth
*Perforating	24"	918	2 pt.	Med. Hard Pol. 12 Teeth

The above sizes can be shipped from stock upon receipt of order. And any of these lengths or heights in 3 point, 4 point or 6 point can be shipped from the factory, 7 to 10 days. Rule in any other specifications will take from 10 days to 3 weeks to manufacture, depending on the amount of work to be done.

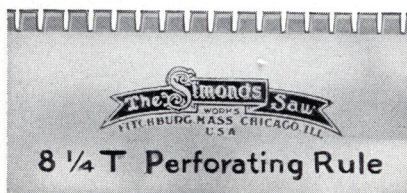
Rule is packed 100 pieces to a carton, 4 cartons to a box, oiled to prevent rusting.

CREASING RULE



MEDIUM HARD—*Black and soft-polished*

PERFORATING RULE



Polished

$8\frac{1}{4}$, 12 and 17 teeth per inch.

List Price per Foot

	2 pt.	3 pt.	4 pt.	6pt.
Cutting, Creasing	\$.10	\$.13 $\frac{1}{2}$	\$.17	\$.24
Perforating	\$.25	\$.81 $\frac{1}{4}$		

* $8\frac{1}{4}$, 12, 17 teeth per inch are standard.



Simonds Saw and Steel Co. Make Own Abrasive Grinding Wheels

Abrasive Company, Philadelphia, Pa., manufacturers of grinding wheels and kindred products is owned and operated by Simonds Saw and Steel Company. This unified control enables Simonds to assure their customers of a complete saw and knife grinding service.

Simonds Abrasive Saw Gummers

Abrasive Company saw gumming wheels cut free and fast without burning and retain their shape so the saw teeth will be uniform and give a good smooth finish.

Three processes are employed in the manufacture of Abrasive saw gummers, Vitrified, Elastic and Bakelite. Each has its merits, the selection of which depends on the type of saws, the grinding equipment used and the filer's preference.

Saw gumming wheels should be run at approximately 5000 to 5500 surface feet per minute to give best results. As the wheel wears down, the surface speed decreases, therefore the wheel speed should be increased to get maximum results from the wheel. If this is not done, the wheel will act softer as it wears down.

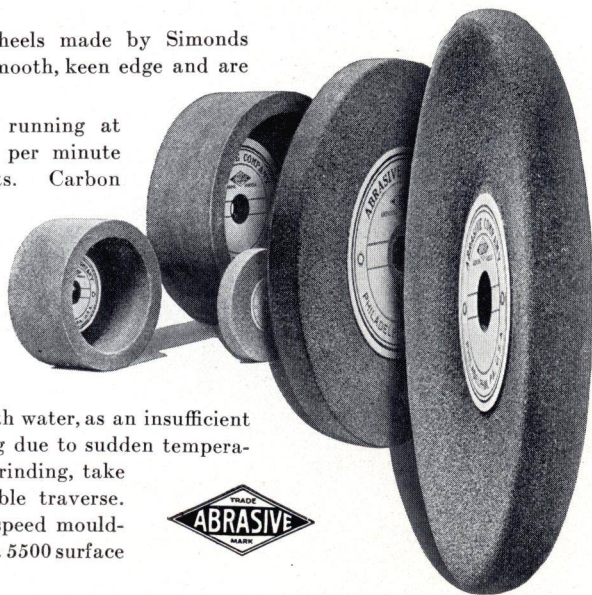
Wheels for saw gumming must be in balance and run true. If they wobble or are out of balance the machine will shake, tending to loosen bearings and break down the wheel structure at the point of grinding contact, causing it to waste away.

Abrasive Company has special equipment for machining and balancing saw gumming so they will run true and be in balance.

Simonds Abrasive Knife Grinding Wheels

The knife grinding wheels made by Simonds Abrasive Co. produce a smooth, keen edge and are free cutting.

Knife grinding wheels running at 4000 to 4500 surface feet per minute produce the best results. Carbon knives require plenty of grinding solution or water, as the wheel contact is broad, tending to heat up quickly. High speed steel knives may be ground either wet or dry. If ground wet, flood them with water, as an insufficient supply may cause cracking due to sudden temperature changes. For dry grinding, take light cuts with a fast table traverse. Wheels for grinding high speed moulding knives should run about 5500 surface feet per minute.





Greyhound Cutter Heads

In the following pages we are illustrating only a few of the specially constructed types of heads developed by the Simonds Guaranteed Cutter Head Co. Also practical and economical cutter heads designed for use on any type or make of machine.

The maintenance of a country-wide direct contact with the woodworking industry and its cutter head and knife problems has developed an invaluable fund of information and experience which we place at your service. We also offer the services of our engineering department in *working out any special head problems confronting you.*

We wish to call your particular attention to our direct factory service repair and maintenance department, where we recondition used cutter heads and knives and render efficient and prompt service on short notice. *A complete head and cutter catalog sent on request.* Write any branch of the Simonds Saw and Steel Company or the

SIMONDS GUARANTEED CUTTER HEAD COMPANY

1916 First Avenue So., Seattle, Wash.

Division of Simonds Saw and Steel Company



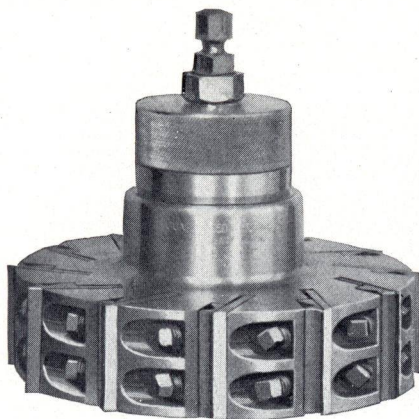


Illustration No. 300

Greyhound Round Jointer Head

Many different type jointer heads are carried in stock, and in most cases we can make immediate delivery of these heads for standard make machines. The above illustration shows a 12-knife corrugated head and is fitted with a removable self-centering device which makes it adaptable for different size spindles. Heads can be furnished with smooth or corrugated knives and with any number up to and including sixteen.

This 8-knife side head is shown equipped with thin knives and is used on surfaces that must stand hard usage and fast feeds. All of our heads are made of special alloy nickel steel, accurately machined, and designed to meet the requirements of modern heavy-duty machines.

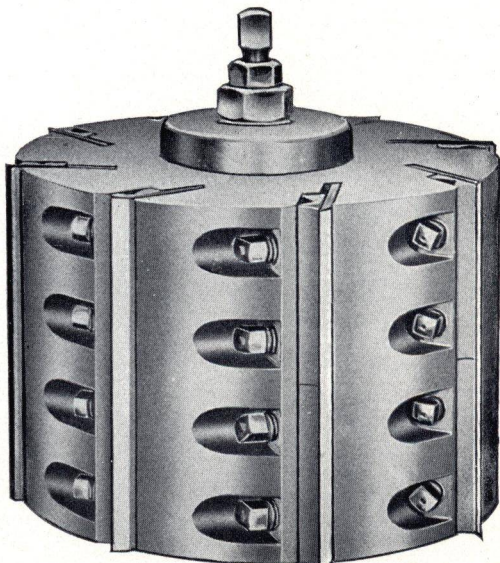


Illustration No. 301

Greyhound Round Jointer Head



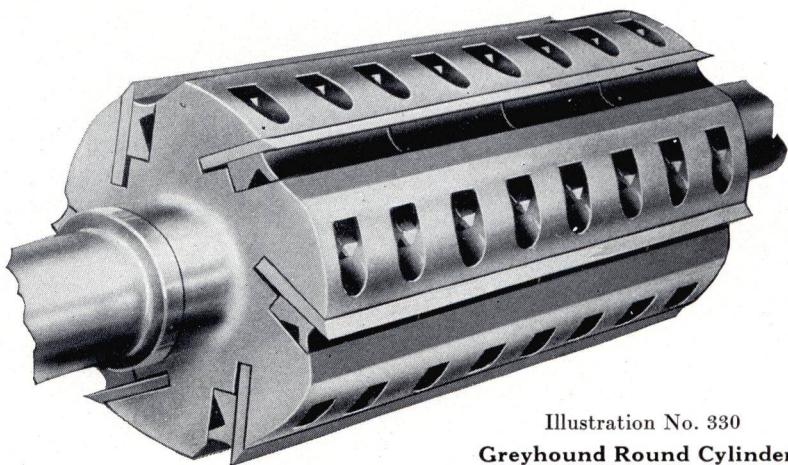


Illustration No. 330
Greyhound Round Cylinders

Cylinders of all types and sizes can be furnished to specifications. The best quality of alloy steel is used in the construction. Accurate workmanship is assured and all cylinders are tested to running balance at 4000 R. P. M.

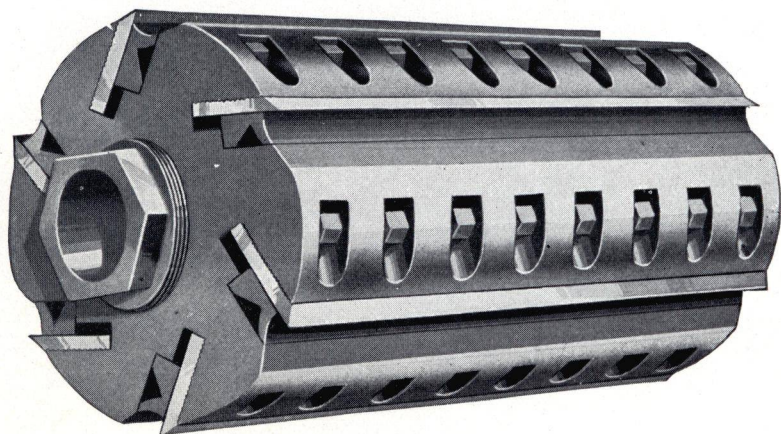
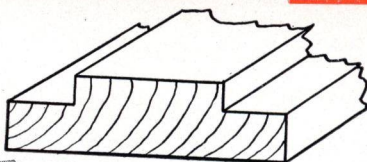
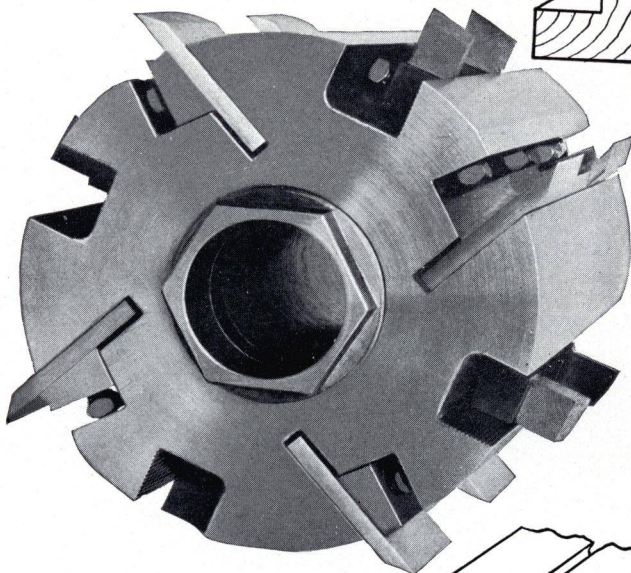


Illustration No. 332
Greyhound Round Self-centering Head

Any diameter or length round slip-on head can be furnished. Large quantities of standard size heads are carried in stock and prompt delivery is assured. Illustration shows 12" 6-knife corrugated head complete with knives, gibs, screws and self-centering device. Backing strip can be supplied for corrugated heads, which makes it possible to use thin or corrugated knives.

Illustration No. 951

Greyhound Door Jamb Head



A utility head equipped with knives for double door jamb. This head was originated by us some time ago to meet the growing demand for this type of work. The rabbet knives are spaced $1/32$ " wider than the pattern, and the eight rakers as shown dress the edge and produce smooth finish and square corners.

Same head as shown above except fitted with four jointer knives and splitters for dressing and splitting several pieces at one time. Many different patterns can be run very economically on this head.

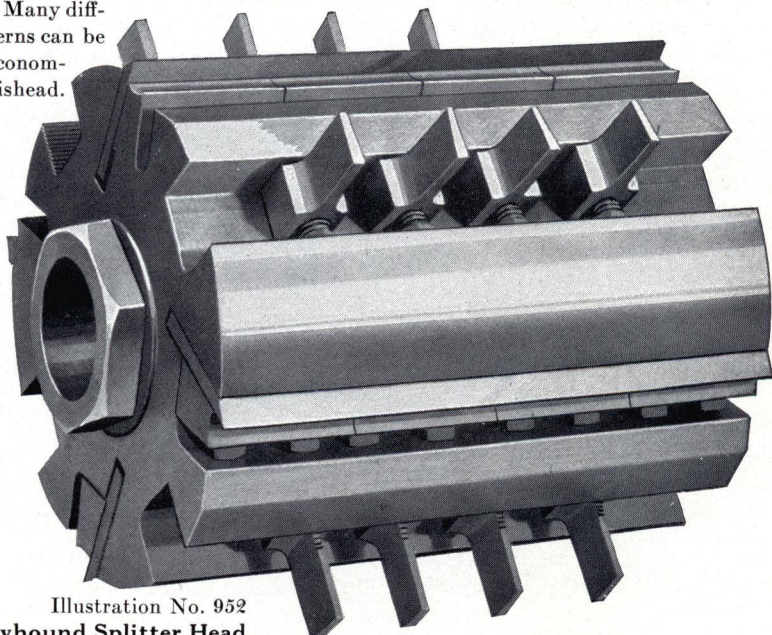
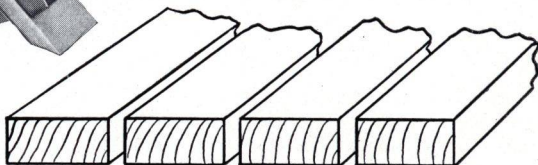
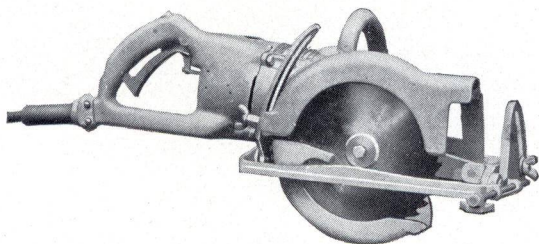


Illustration No. 952

Greyhound Splitter Head

Wappat Electric Hand Saw



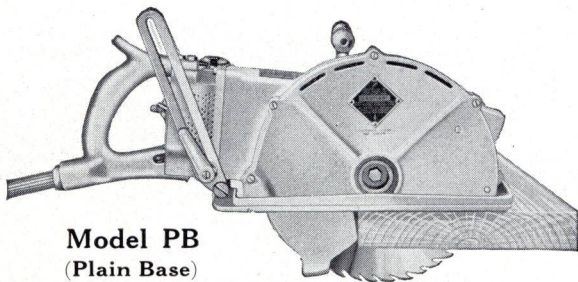
Model 2-A
Cutting Capacity
 $2\frac{5}{8}"$
An
All-purpose
Tool

The **Model 2-A WAPPAT** Electric Handsaw has been designed for general use on construction work. It is equipped with 8" Simonds circular saw blades and is capable of cutting full 2" lumber at 45 degree angle. The Model 2-A has a patented telescoping safety guard which affords complete protection. The starting switch is of the momentary type operated by a full grip switch trigger. A non-shatter glass sawdust shield permits perfect vision of a sawing line and a rip fence guide adjustable from 0 to 5" is included as standard equipment. A super-power universal motor supplies adequate power for the toughest sawing job.

An inexpensive bench stand has been designed for the Model 2-A which holds it in an inverted position for light sawing and ripping.

The **No. 2 WAPPAT** Handsaw is made in three models: plain base, swivel base, and swivel base with dado cutters. The No. 2 is light in weight and is adaptable for all kinds of light sawing. All three models have the same power unit and differ only in adaptability. The utility of WAPPAT saws may be increased by the use of auxiliary saw tables.

Nos. 3 and 4
Wappat Electric
Hand Saws
Cutting Capacity
 $3\frac{5}{8}"$ and $4\frac{5}{8}"$
respectively
Heavy Duty
Construction Saws



Model PB
(Plain Base)

These tools have the necessary power and ruggedness required for sawing the medium size lumber and large timbers used in heavy construction.

Both sizes are made in two models, namely: Plain Base and Swivel or Tilting Base. All bases are adjustable vertically, thus allowing the saw to be set to cut any required depth as is necessary when notching timbers, etc.

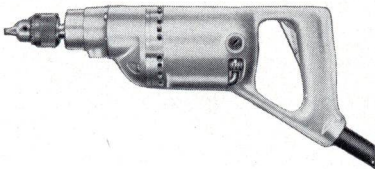
The safety guard opens gradually, telescoping into the upper guard as the saw is pushed into the material, then instantly snaps shut as the cut is finished.

WAPPAT INC., 7522 MEADE ST., PITTSBURGH, PA.
DIVISION SIMONDS SAW AND STEEL CO.

Red Streak Portable Electric Drills

WAPPAT Red Streak Electric Drills are featured by their fast drilling speed. Ball bearings throughout and extremely efficient gear design produce maximum drilling power. Red Streak Drills are made in the following sizes: $\frac{1}{4}$ " Standard Duty, $\frac{1}{4}$ " Heavy Duty, $\frac{1}{4}$ " Heavy Duty slow speed, $\frac{3}{8}$ " Heavy Duty, $\frac{1}{2}$ " Standard Duty, $\frac{1}{2}$ " Heavy Duty and $\frac{3}{4}$ " Heavy Duty.

The No. 122 $\frac{1}{2}$ " Heavy Duty Drill shows the design and streamline effect of tool. This permits operation in awkward places and gives perfect balance.



No. 122
 $\frac{1}{2}$ "
Heavy Duty

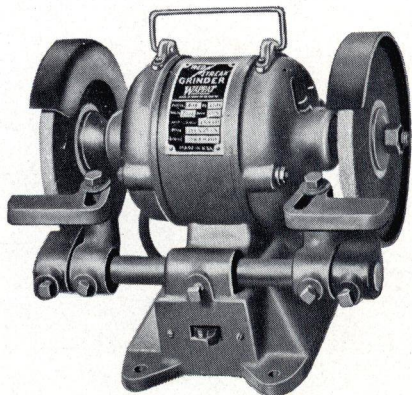


The No. 142 $\frac{1}{4}$ " Heavy Duty Drill shown at left cannot be stalled by any hand drilling test. This is definite evidence of the power and efficiency of WAPPAT drills. For maintenance and production work WAPPAT Red Streak Drills will effect definite savings through faster drilling speeds.

Red Streak Electric Bench Grinder

The Red Streak Portable Bench Grinder is a utility tool for general grinding purposes. It is furnished with two Abrasive Company perfectly balanced wheels 6" in diameter and $\frac{1}{2}$ " wide. A powerful induction motor maintains good grinding speed. The shaft runs on ball bearings and the wheels will withstand unusual pressure.

Attachments for the Bench Grinder include a Twist Drill Grinding Attachment, a Saw Grinding Attachment, wire brushes and miscellaneous special wheels.



Wappat manufactures other Electric Tools which are both practical and economical. The *Electric Lock Mortiser* which displaces the brace and chisel method of mortising doors for locks and the "*Red Streak*" *Electric Door Plane* which quickly and accurately planes doors and sash both across and with the grain. Write for descriptive circular.

WAPPAT INC., 7522 MEADE ST., PITTSBURGH, PA.
DIVISION SIMONDS SAW AND STEEL CO.



The Simonds Line

The Simonds Saw and Steel Company manufacture a complete line of highest quality saws, machine knives, files and flat steel plates with or without cutting edges.

In order to maintain the high standard of quality and uniformity set for Simonds Products we produce our own steel in our modern electric mill at Lockport, N. Y. A partial list of these products is given below. Write us about any in which you are interested.

SAWS

Wood Cutting

Solid Tooth Circular Saws
Inserted Tooth Circular Saws
Saw Bits and Shanks
Wide Band Saws
Narrow Band Saws
Planer Saws
Dado Heads
Groover Saws
Crescent Ground Cross-cut Saws
Gang and Drag Saws

Metal Cutting

Solid Tooth Circular Saws
Inserted Tooth Circular Saws
Metal Band Saws—Spring Temper
Metal Band Saws—Hard Edge
Hack Saw Blades
Screw Slotter Saws

KNIVES

Carbon Planer Knives
"Red Streak" High Speed Steel
Knives
"Tungsweld" Planer Knives
Veneer Knives
Hog Knives
Chipper Knives
Leather Knives
Belt Knives
Tobacco Knives
Paper Knives
Self-hardening Shaper Steel Bars

FILES

Saw Sharpening Files
Machine Shop Files

MISCELLANEOUS

Saw Tools	Steel Rule
Swages and Upsets	Flat Ground Stock
Circular Cutters	Tool Holder Bits

ELECTRIC TOOLS

ABRASIVE WHEELS

GUARANTEED CUTTER HEADS



SIMONDS "THE SAW MAKERS"

Remittances should be made in funds current at par in New York City, Boston or Chicago.

Shipping Directions. Give explicit instruction for routing each shipment, and thus avoid unnecessary delays in delivery.

Our Terms to all parties who are satisfactorily rated in Dun or Bradstreet, or who will furnish us with suitable bank or commercial references, are thirty days. In other cases we will follow our usual custom and send goods C. O. D.

Simonds Saw and Steel Company

Established 1832 — Fitchburg, Mass.

1350 Columbia Road
Boston, Mass.

127 So. Green Street
Chicago, Ill.

109 Lafayette Street
New York City

420 Canal Street
New Orleans, La.

1934 First Ave., South
Seattle, Wash.

85 First Street
Portland, Ore.

228 First Street
San Francisco, Calif.

400 East Third Street
Los Angeles, Calif.

SIMONDS STEEL MILL, Lockport, N. Y.

SIMONDS SAWS, Ltd., Britannia Wharf, Baldwin Terrace, Islington,
London, No. 1, England

SIMONDS CANADA SAW COMPANY, Ltd.

Vancouver, B. C. Montreal, Que. Toronto, Ont. St. John, N. B.

Cutter Head Division

SIMONDS GUARANTEED CUTTER HEAD CO.

Seattle, Wash.

Grinding Wheel Division

ABRASIVE COMPANY

Tacony and Fraley Streets
Philadelphia, Pa.

Electric Tool Division

WAPPAT, INC.

7522 Meade Street
Pittsburgh, Pa.



SIMONDS "THE SAW MAKERS"

Keep Your Saws Sharp

with a

SIMONDS
FILE



First of all, SIMONDS Files are made to sharpen SIMONDS Saws. They are on the job all the time in SIMONDS plants.

Constant watch of performance maintains cutting qualities. The result is a fast-cutting long-wearing file for saw filers in mills and shops. Get **SIMONDS FILES** from your dealer.



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SIMONDS "THE SAW MAKERS"

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SIMONDS
SAW AND STEEL
COMPANY